

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FP2558	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/SG 2005/000085	(Earliest) Priority Date (<i>day/month/year</i>) 24 March 2004 (24.03.2004)	International filing date (<i>day/month/year</i>) 17 March 2005 (17.03.2005)	
Applicant NSL ENGINEERING PTE LTD			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see continuation of this first sheet.

2. ☐ **Certain claims were found unsearchable** (see continuation of this first sheet)

3. ☐ **Unity of invention is lacking** (see continuation of this first sheet)

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in the continuation of this first sheet. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

Continuation of first sheet**Continuation No. IV:****Text of the abstract****(Continuation of item 5 of the first sheet)**

A spreader assembly for a crane includes a pair of spreaders (1,3) which are connected by a linking frame (2) and suspended under a trolley. The configuration of the linking frame can be configured using hydraulic cylinders (241,242,243) to move the spreaders (1,3) relatively, so that the spreaders (1,3) may be used at the same time to carry containers. The linking frame (2) can also be connected to a docking station (4) mounted on the trolley, and either one of the spreaders (1,3) released from the linking frame for independent use.

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International application No.
PCT/SG 2005/000085

A. CLASSIFICATION OF SUBJECT MATTER IPC⁷: B66C 1/66 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC⁷: B66C, B66F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched ----		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPODOC, WPI		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2003/104132 A1 (STINIS BEHEER B.V.) 18 December 2003 (18.12.2003) <i>totality.</i>	1-5
A	--	9
A	WO 2003/099699 A1 (NATSTEEL ENGINEERING PTE LTD.) 4 December 2003 (04.12.2003) <i>figures 5, 6.</i>	1, 2
A	US 2003/0189348 A1 (LINDSTROM) 9 October 2003 (09.10.2003) <i>figures 4, 5.</i>	1, 2
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<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search 19 May 2005 (19.05.2005)	Date of mailing of the international search report 31 May 2005 (31.05.2005)	
Name and mailing address of the ISA/ AT Austrian Patent Office Dresdner Straße 87, A-1200 Vienna Facsimile No. +43 / 1 / 534 24 / 535	Authorized officer NIMMERRICHTER R. Telephone No. +43 / 1 / 534 24 / 314	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	A	20030189 348		none	
WO	A	20030996 99		none	
WO	A	20031041 32		none	